

Routing and Switching Essentials

Chapter 1 Routing Concepts > 1.1 Router Initial Configuration > 1.1.1 Router Functions > 1.1.1.7 Activity - Identify Router Components

Activity - Part 1: Identify Router Memory Types

Instructions

Indicate your knowledge of router memory. Drag the memory functions to the appropriate field to match the memory types.

Memory Functions	Memory Type
Startup configuration	NVRAM
IOS and system files	Flash
Diagnostics and boot instructions	ROM
Running configuration	RAM

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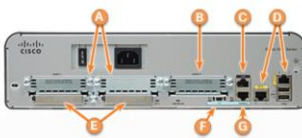
Routing and Switching Essentials

Chapter 1 Routing Concepts > 1.1 Router Initial Configuration > 1.1.1 Router Functions > 1.1.1.7 Activity - Identify Router Components

Activity - Part 2: Identify Router Components

Instructions

Identify the ports/slots on this Cisco 1941 Series router. Match the port or slot name to the letter that corresponds to the appropriate back panel location. Drag the location letters to the fields provided.



Back Panel Port or Slot Name	Back Panel Location
D LAN Interfaces	
F Console USB Mini-B Port	
G AUX Port	
E 4 GB Flash Card Slots	
A Double-Wide eHWIC Slots	
G Console RJ-45 Port	
B eHWIC 0 Slot	

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Configure the Management SVI on S2

Enable IP on a Switch

Network infrastructure devices require IP addresses to enable remote management. Using the device IP address, the network administrator can remotely connect to the device using Telnet, SSH, HTTP, or HTTPS.

A switch does not have a dedicated interface to which an IP address can be assigned. Instead, the IP address information is configured on a virtual interface called a switched virtual interface (SVI).

For example, in Figure 1, the SVI on the Layer 2 switch S1 is assigned the IP address 192.168.10.2/24 and a default gateway of 192.168.10.1.

Use the Syntax Checker in Figure 2 to configure the Layer 2 switch S2.

```

S2(config)# interface vlan 1
S2(config-if)# ip address 192.168.11.2 255.255.255.0
S2(config-if)# no shutdown
%LINK-5-CHANGED: Interface Vlan1, changed state to up
Exit interface configuration mode.
S2(config-if)# exit

Configure the default gateway for S2.
S2(config)# ip default-gateway 192.168.11.1
  
```

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S2(config-if)# no shutdown
%LINK-5-CHANGED: Interface Vlan1, changed state to up
Exit interface configuration mode.
S2(config-if)# exit

Configure the default gateway for S2.
S2(config)# ip default-gateway 192.168.11.1
You successfully configured the Management SVI on S2.
  
```

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Routing and Switching Essentials

Chapter 1

Routing Concepts

1.1

Router Initial Configuration

1.1.2

Connect Devices

1.1.2.8

Activity - Document an Addressing Scheme

Instructions

From the pool of addresses, drag an address to the table and to the topology to assign an address for each device.

172.16.10.1

172.16.20.10

172.16.10.10

10.10.10.1

10.10.10.2

172.16.20.1

Check

Reset

Activity - Document an Addressing Scheme

Device	Interface	IPv4 Address	Subnet Mask	Default Gateway
R1	Fa0/0	172.16.10.1	255.255.255.0	N/A
	S0/0/0	10.10.10.1	255.255.255.0	N/A
R2	Fa0/0	172.16.20.1	255.255.255.0	N/A
	S0/0/0	10.10.10.2	255.255.255.0	N/A
PC1	N/A	172.16.10.10	255.255.255.0	172.16.10.1
PC2	N/A	172.16.20.10	255.255.255.0	172.16.20.1

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